

# Specification for Approval

## 产品承认书

Customer:

Customer P/N:

VOOHU P/N:

ST1388WH

Version No.:

V0.1

Description:

Transformer

EP13/13

| SUZHOU VOOHU Company Approval |               | Customer Approval<br>(客户承认签章) |
|-------------------------------|---------------|-------------------------------|
| DRAWN                         | Geoffrey.Song |                               |
| CHECKED                       | Sunny.Xu      |                               |
| APPROVED                      | Elvis. Song   |                               |
| 日期DATE:2025/8/22              |               | 日期DATE: 2025/8/22             |

Please Return One Copy to Us After Approved,TKs! (承认后请回寄一份,谢谢)

**VOOHU 沃虎**  
造沃虎·真靠谱

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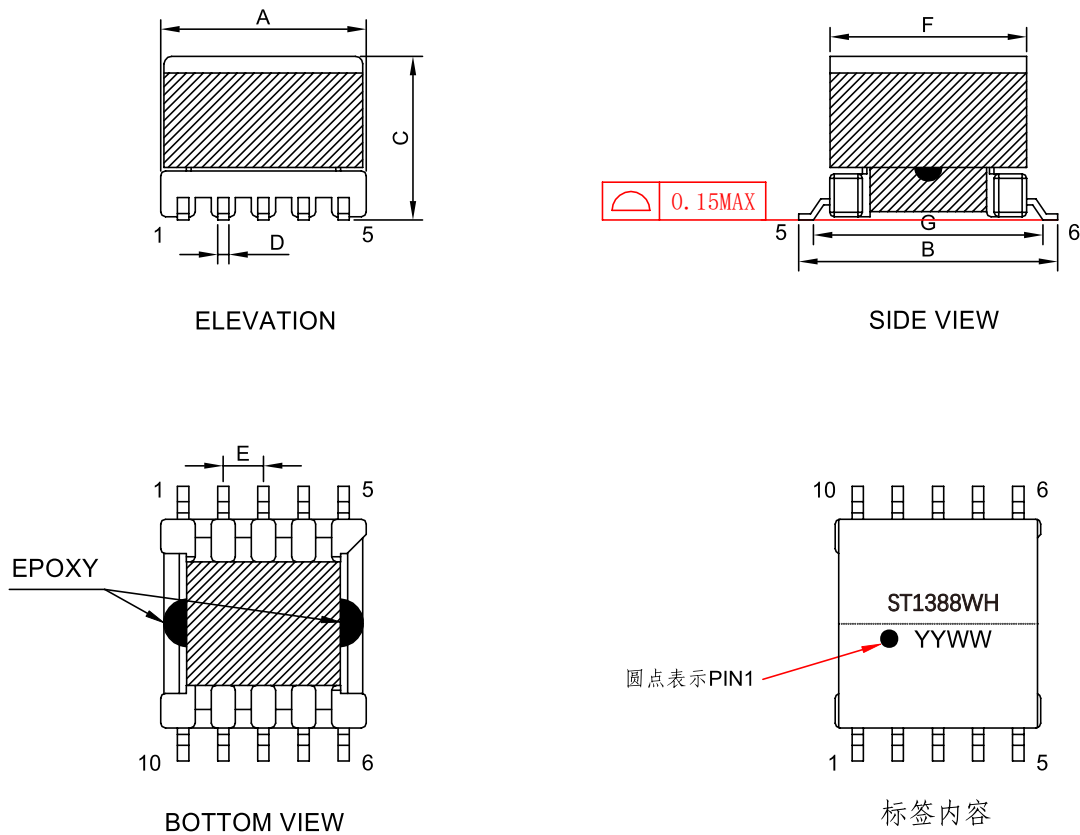
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|             |          |          |
|-------------|----------|----------|
| DESCRIPTION | PART NO. | REV:R0   |
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# 1. OUTLINE DIMENSION:(UNIT:mm)/外形尺寸（单位：mm）



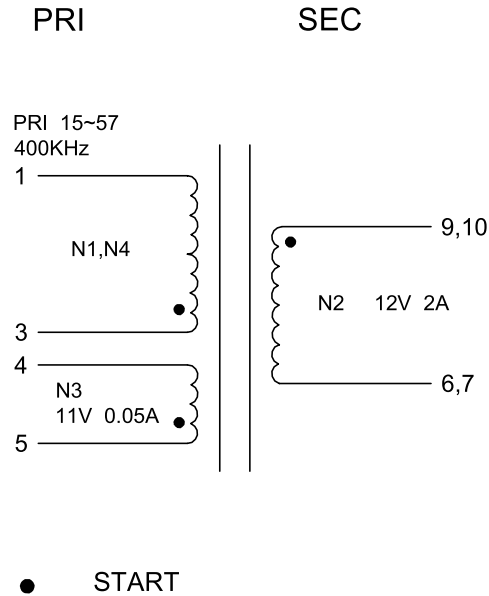
| A       | B         | C       | D         | E       | F       | G         |  |
|---------|-----------|---------|-----------|---------|---------|-----------|--|
| 14.5MAX | 17.4±0.30 | 13.0MAX | 0.70±0.10 | 2.5±0.2 | 14.5MAX | 15.4±0.15 |  |

## NOTE:

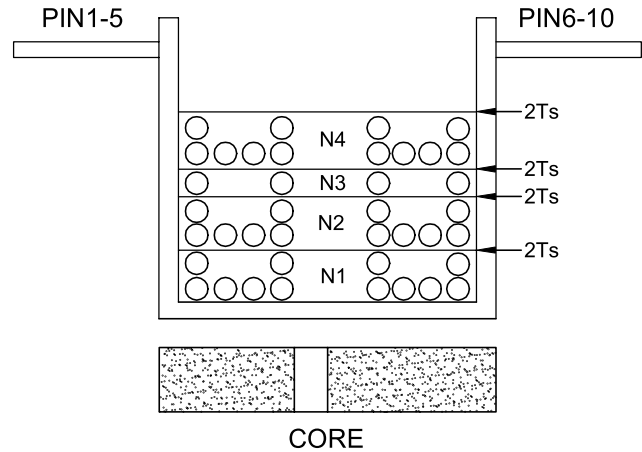
- 1.N1绕组不交叉.
- 2.所有胶带用高温胶带.
- 3.磁芯单边开气隙(装于PIN1-5侧), 外包7mm胶带3Ts.
- 4.底部磁芯与线包空隙处点黑胶固定.(如图)
- 5.产品不含浸.
- 6.标签如上图所示,印字内容中YYWW代表年份与周期.
- 7.产品PIN脚平贴度管控标准: 0.15MAX
- 8.B尺寸不含锡尖.

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|-------------|----------|----------|
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## 2. CIRCUIT DIAGRAM/电气原理图



## 3. CONSTRUCTION DIAGRAM/内部结构图



## 4.WINDING INFORMATIONS TABLE/绕制明细表

| 绕组<br>WINDING | 挡墙胶带<br>MARGIN TAPE |                 | 起始-收尾<br>S - F | 线材<br>WIRE   | 圈数<br>TURN | 绝缘胶带<br>TAPE | 备注<br>REMARK           |
|---------------|---------------------|-----------------|----------------|--------------|------------|--------------|------------------------|
|               | PIN1-5<br>SIDE      | PIN6-10<br>SIDE |                |              |            |              |                        |
| N1            | /                   | /               | 3--1           | 2UEW Ø0.21*3 | 13Ts       | 2Ts          | 密绕/CLOSE+<br>疏绕/SPARSE |
| N2            | /                   | /               | 9,10--6,7      | 2UEW Ø0.21*6 | 9Ts        | 2Ts          | 密绕/CLOSE+<br>疏绕/SPARSE |
| N3            | /                   | /               | 5--4           | 2UEW Ø0.21*1 | 9Ts        | 2Ts          | 疏绕/SPARSE              |
| N4            | /                   | /               | 3--1           | 2UEW Ø0.21*3 | 13Ts       | 2Ts          | 密绕/CLOSE+<br>疏绕/SPARSE |

### NOTE:

- 1.N1绕组不交叉.
- 2.所有胶带用高温胶带.
- 3.pin6,7和9,10焊锡时可连锡或不连锡.

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## 5. CHARACTERISTIC /电气性能

| NO.<br>序号 | ITEM<br>项目                       | TERT POINT<br>测试点    | TECHNICAL CRITERION<br>技术标准 | TEST CONDITION & INSTRUMENT<br>测试条件&仪器 |
|-----------|----------------------------------|----------------------|-----------------------------|----------------------------------------|
| 1         | INDUCTANCE<br>电感                 | L (3-1)              | 12.0uH± 10%                 | CHROMA3250(100Ω)<br>100KHz/1V AT 25℃   |
| 2         | LEAKAGE<br>INDUCTANCE<br>漏感      | LK(3-1)<br>SHORT SEC | 0.50uH MAX                  | CHROMA3250(100Ω)<br>100KHz/1V AT 25℃   |
| 3         | DCR<br>直流电阻                      | R(3-1)               | 40.0mΩ MAX                  | TH2511 AT25℃                           |
|           |                                  | R(9,10--6,7)         | 40.0mΩ MAX                  |                                        |
|           |                                  | R(5-4)               | 160.0mΩ MAX                 |                                        |
|           |                                  |                      |                             |                                        |
| 4         | HI-POT<br>抗电强度                   | PRI-SEC              | AC1500V                     | CHROMA19053<br>2mA 1SEC 50Hz           |
|           |                                  | PRI-CORE             | AC500V                      |                                        |
|           |                                  | SEC-CORE             | AC500V                      |                                        |
| 5         | INSULATION<br>RESISTANCE<br>绝缘电阻 | PRI-SEC              | 100MΩ MIN                   | CHROMA19053<br>DC 500V                 |
|           |                                  | PRI-CORE             | 100MΩ MIN                   |                                        |
|           |                                  | SEC-CORE             | 100MΩ MIN                   |                                        |
| 6         | RATED POWER<br>额定功率              | 额定功率24W              |                             |                                        |

Between-20℃ to 80℃ test inductance and resistance on the basis of 25℃,  
The variation shall not exceed 20%.

Operating temperature range: -40℃ to +85℃.

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